

Applicant : Joseph E. Harter Jr.
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In the Specification:

Please replace paragraph **[0003]** with the following rewritten paragraph:

A number of detection systems have been proposed for detecting objects in a vehicle blind spot region. Many of the proposed detection systems employ various types of sensors for detecting an object and alerting the driver of the host vehicle of the presence of the object in the blind spot region. One example of a detection system for detecting objects emitting thermal radiation in a blind spot of a vehicle is disclosed in U.S. Patent Application Serial No. ~~10/407,507~~, filed April 5, 2003, No. 6,961,006 and entitled "OBJECT DETECTION FOR A STOPPED VEHICLE," the entire disclosure of which is hereby incorporated herein by reference. The aforementioned detection approach employs a single thermal detection sensor detecting thermal radiation emitted in a single coverage zone, and detects the presence of an object emitting thermal radiation based on a detected temperature variation when the vehicle is stopped.

Please replace paragraph **[0004]** with the following rewritten paragraph:

Another example of a proposed detection system for detecting objects in a blind spot of a vehicle is disclosed in U.S. Patent No. 5,668,539 and U.S. Patent ~~Publication No. 2002/0126002 A1~~ No. 6,753,766, both of which are hereby incorporated herein by reference. The approaches disclosed in the aforementioned patent documents generally employ a plurality of infrared sensors, such as thermopile sensors, to detect changes in a thermal scene along the side of a host vehicle to detect the presence of a thermal emitting object, such as another automobile, in the blind spot region of the host vehicle. These prior techniques employ identical sensors positioned at predetermined locations along the side of the host vehicle, such that the forward-most first sensor is aimed in a particular direction to receive a thermal image from a specific area, and a second sensor is located further aft on the host vehicle and is positioned to generally view the same area, some predetermined time period after the first sensor as the host vehicle moves forward. By knowing speed of the host vehicle, a microcontroller determines the amount of time shift that is necessary to have data from the

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same physical area at two different points in time. If there is a temperature increase in the second thermal image, then it is assumed to be the heat emitted from a vehicle. The heat could be heat reflected from the road underneath the vehicle or heat generated at the interface of the road and tires of the vehicle.

Please replace paragraph [0022] with the following rewritten paragraph:

The controller 20 monitors the sensed temperature in each of the multiple coverage zones 16A and 16B sensed by thermal detection sensors 12A and 12B and determines the presence and amount of thermal radiation, such as heat emitted from object(s) in each of the coverage zones. This may include detecting a change in monitored temperature between the coverage zones 16A and 16B. The controller 20 may process the temperatures sensed via sensors 12A and 12B to determine the presence of an object emitting thermal radiation in a blind spot region of the vehicle as described in U.S. Patent ~~Publication No. 2002/0126002 A1~~ No. 6,753,766, which is incorporated herein by reference.